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**1691** Inhibition of microtubule polymerization by 3-bromopropionylamino benzoylurea (JIMB01), a new cancericidal tubulin ligand
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**1777** Induction of G1 phase arrest in MCF human breast cancer cells by pentagalloylglucose through the down-regulation of CDK4 and CDK2 activities and up-regulation of the CDK inhibitors $p27^{Kip}$ and $p21^{Cip}$

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**1817** An amperometric biosensor with human CYP3A4 as a novel drug screening tool

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**1827** Large-conductance $K^+$ channel openers NS1619 and NS004 as inhibitors of mitochondrial function in glioma cells

*Grazyna Debska, Anna Kicinska, Jerzy Dobrucki, Beata Dworakowska, Ewa Nurowska, Jolanta Skalska, Krzysztof Dolowy and Adam Szewczyk*

**1835** K-ATP channel independent effects of pinacidil on ATP production in isolated cardiomyocyte or pancreatic β-cell mitochondria

*Nicolas Lembert, Lars-Åke Idahl and Hermann P.T. Ammon*

**1843** Human MDR1 polymorphism: G2677T/A and C3435T have no effect on MDR1 transport activities

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**1867** Monoamine oxidase A inhibitory potency and flavin perturbation are influenced by different aspects of pirlindole inhibitor structure

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*Michelle de Graaf, Herbert M. Pinedo, Razi Quadir, Hidde J. Haisma and Epie Boven*

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**1907** Intracellular signal transduction modulating expression of plasminogen activator inhibitor-1 in adipocytes
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**1915** Erratum to "Characterization of the molecular interactions of interleukin-8(CXCL8), growth related oncogen α (CXCL1) and a non-peptide antagonist (SB 225002) with the human CXCR2"
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**1923** Characterization of maleimide-activated $Ca^{2+}$ entry in neutrophils
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**1931** Expression of the murine $CB_2$ cannabinoid receptor using a recombinant Semliki Forest virus
*John M. Olson, Suzanne J. Kennedy and Guy A. Cabral*

**1943** Effect of 20-*epi*-1α,25-dihydroxyvitamin $D_3$ on the proliferation of human neuroblastoma: role of cell cycle regulators and the Myc–Id2 pathway
*Kiranmai Gumireddy, Naohiko Ikegaki, Peter C. Phillips, Leslie N. Sutton and C. Damodar Reddy*

**1957** Metabolism of 26,26,26,27,27,27-$F_6$-1α,25-dihydroxyvitamin $D_3$ by CYP24: species-based difference between humans and rats
*Toshiyuki Sakaki, Natsumi Sawada, Daisuke Abe, Koichiro Komai, Shunichi Shiozawa, Yasuki Nonaka, Kimie Nakagawa, Toshio Okano, Miho Ohta and Kuniyo Inouye*

**1967** Fast repair of deoxythymidine radical anions by two polyphenols: rutin and quercetin
*Chenyang Zhao, Yimin Shi, Wenfeng Wang, Zhongjian Jia, Side Yao, Botao Fan and Rongliang Zheng*

**1973** Influence of parenteral iron preparations on non-transferrin bound iron uptake, the iron regulatory protein and the expression of ferritin and the divalent metal transporter DMT-1 in HepG2 human hepatoma cells
*Barbara Scheiber-Mojdehkar, Brigitte Sturm, Liane Plank, Ingrid Kryzer and Hans Goldenberg*

**1979** Toxic effects of copper-based antineoplastic drugs (Casiopeinas®) on mitochondrial functions
*Alvaro Marín-Hernández, Isabel Gracia-Mora, Lena Ruiz-Ramírez and Rafael Moreno-Sánchez*

**1991** Long-term-desensitization of prostacyclin receptors is independent of the C-terminal tail
*Andreas Hasse, Sigrid M. Nilius, Karsten Schrör and Jutta Meyer-Kirchrath*

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*Roy H. Decker, Jay Levin, Lora B. Kramer, Yun Dai and Steven Grant*

**2009** Dual inhibition of topoisomerase I and tubulin polymerization by BPR0Y007, a novel cytotoxic agent
*Jang-Yang Chang, Hsing-Pang Hsieh, Wen-Yu Pan, Jing-Ping Liou, Shian-Jy Bey, Li-Tzong Chen, Jin-Fen Liu and Jen-Shin Song*

**2021** Reduced concentrations of serum enhance the antiproliferative activity of retinoid-related molecules and accelerate the onset of apoptosis
*Francisco J. Lopez-Hernandez, Maria A. Ortiz, Yolanda Bayon and F. Javier Piedrafita*

**2031** Activation of deoxycytidine kinase by gamma-irradiation and inactivation by hyperosmotic shock in human lymphocytes
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**2041** Sarin (nerve agent GB)-induced differential expression of mRNA coding for the acetylcholinesterase gene in the rat central nervous system

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**2049** Inhibition of the norepinephrine transporter function in cultured bovine adrenal medullary cells by bisphenol A

*Yumiko Toyohira, Kensuke Utsunomiya, Susumu Ueno, Kouichiro Minami, Yasuhito Uezono, Reiji Yoshimura, Masato Tsutsui, Futoshi Izumi and Nobuyuki Yanagihara*

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*Carolyn Sandoval, Angelina Stojanova, Marcos R. DiFalco and L. Fernando Congote*

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**2073** Endogenous nitric oxide does not modulate mesenteric mast cell degranulation in rats

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**2081** Analysis of A2a receptor-deficient mice reveals no significant compensatory increases in the expression of A2b, A1, and A3 adenosine receptors in lymphoid organs

*Dmitriy E. Lukashev, Patrick T. Smith, Charles C. Caldwell, Akio Ohta, Sergey G. Apasov and Michail V. Sitkovsky*

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**2091** Modification of intracellular free calcium in cultured A10 vascular smooth muscle cells by exogenous phosphatidic acid

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